

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings of claims in the application:

Listing of Claims:

1. – 57. (cancelled)

58. (new) A paste-like mass that can be used in electrochemical elements, comprising a heterogeneous mixture of:

a matrix containing or comprising at least one of the group consisting of organic polymer, precursors thereof, and prepolymers thereof;

one of: a liquid inorganic or largely inorganic electrode material that does not dissolve said matrix or essentially does not dissolve said matrix, or such an electrolyte, or such an ionic or electronic intermediate conductor between two adjacent electrolytes/electrodes that can be arranged in an electrochemical element, wherein the electrolyte can contain up to 70 vol. % organic solvent, relative to the total quantity of solvent used, said solvent being miscible with water; and

if required, a powdery solid that is essentially inert relative to the electrochemically activatable liquid.

59. (new) A paste-like mass in accordance with claim 58, wherein said matrix also contains at least one of plasticizer and a solvent or swelling agent.

60. (new) A paste-like mass in accordance with claim 58, wherein said matrix is or contains a cross-linkable liquid or soft resin.

61. (new) A paste-like mass in accordance with claim 58, wherein a hygroscopic salt is furthermore worked into said matrix material.

62. (new) A paste-like mass in accordance with claim 58, wherein said liquid is an aqueous or anhydrous, inorganic or largely inorganic liquid and contains at least one of undissolved solid electrolytes, a mixed conductor, and electrolyte material.

63. (new) A paste-like mass in accordance with claim 58, wherein said inorganic liquid contains magnesium chloride.

64. (new) A paste-like mass in accordance with claim 58, wherein said matrix is or contains a cross-linkable liquid or soft resin and said resin is selected from among cross-linkable addition polymers and condensation resins, especially aminoplasts, phenoplasts, epoxy resins, polyesters, polycarbamates, and methyl methacrylate reaction resins.

65. (new) A paste-like mass in accordance with claim 58, wherein said organic polymer of said matrix is selected from among natural polymers and synthetic polymers and mixtures thereof, especially natural and synthetic polysaccharides, proteins, resins, waxes, and halogenated and non-halogenated rubbers, thermoplasts, and thermoelastomers.

66. (new) A paste-like mass in accordance with claim 58, wherein said matrix contains or comprises at least one organic polymer that is at least partially dissolved or swollen in a solvent or swelling agent and said organic polymer is selected from among synthetic polymers and natural polymers and mixtures thereof.

67. (new) A paste-like material in accordance with claim 58, wherein said electrochemically activatable liquid is selected from among substances that are suitable for positive electrode material or from among substances that are suitable as negative electrode material or from among substances that are suitable for

electrolytes or from among substances that are suitable as ionic or electronic intermediate conductors between two such substances or materials that can be arranged adjacent in an electrochemical element.

68. (new) A paste-like mass in accordance with claim 67, wherein said liquid is or largely contains vanadium oxihalogenide, aqueous or anhydrous sulfuric acid, potassium hydroxide, or LiAlCl₄/SO₂.

69. (new) A paste-like mass in accordance with claim 67, wherein said inorganic liquid also contains a hydrophilic organic additive, preferably an alcohol.